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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,091	03/02/2004	Eun-sook Kang	46187	1204

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ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P.  
1300 19TH STREET, N.W.  
SUITE 600  
WASHINGTON,, DC 20036

EXAMINER

AMINI, JAVID A

ART UNIT PAPER NUMBER

2672

DATE MAILED: 11/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/790,091

Applicant(s)

KANG, EUN-SOOK

Examiner

Javid A. Amini

Art Unit

2672

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 02 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☐ Claim(s) \_\_\_\_\_ is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-14 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. In claims 1, 6 and 12 claim “identify(ing) an image file” to be enlarged and printed. Applicant in the specification under paragraph 0035 discloses that “identifies the image file having the image to be enlarged and printed, in response to the control signal output from the enlargement ratio-checking portion 58. In other words, if it is recognized through the control signal that the enlargement ratio has been determined, the file determining portion 50 identifies the image file having the image to be enlarged”, but does not describe in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Questions: How can one skilled in the art identify the image file? If different from the following Examiner’s assumptions: name of the image file; size of the image file; location of the image file and etc.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an

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international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-14 rejected under 35 U.S.C. 102(e) as being anticipated by Ishizaka U.S.

2003/0179953 A1.

1. Re. claim 1.

Ishizaka at paragraph 0057 discloses that the print engine has a print output processing section for performing predetermined printout processing for the enlarged image, i.e. similar to the following claim invention: "A method of enlarging an image and printing an enlarged image, the method comprising:" Ishizaka in fig. 2 illustrates an original image (i.e. an image file) to be enlarged image at block 664, and printing an enlarged image in fig. 1 using block 70, see following claim language: "identifying an image file having an image to be enlarged and printed". Ishizaka at paragraph 0009 Hitherto, a large number of techniques have been proposed as a technique of performing enlargement processing of a multilevel image represented with a multi-step gradation, namely, finding the values of pixel positions after enlargement. For example, enlargement techniques based on interpolation of nearest neighbor method, linear interpolation or bilinear method, cubic convolution method, which will be hereinafter also referred to as interpolation enlargement techniques, are well known. At paragraph 0026 there is provided an image processing apparatus for performing enlargement processing of an original image represented by a large number of pixels to provide an enlarged image, the image processing apparatus comprising a first image enlargement processing section for enlarging the original image at a preset enlargement ratio; a domain block extraction section for dividing the original image in first block units, thereby extracting a plurality of domain block images; and a range block extraction section for extracting a range block image in a second block unit larger

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than the first block unit about an initial enlarged image provided by the first image enlargement processing section, see portion of the claim invention: “determining the number of pixels of the image using the determined image file”. Ishizaka at paragraph 0010, the nearest neighbor method is a method of using as each pixel value after enlargement, the pixel value of the nearest pixel when each pixel is inversely mapped onto the original image. For example, letting the enlargement ratio in the x direction be a and that in the y direction be b, an inverse map point on the original image resulting from multiplying each coordinate point (X, Y) after enlargement by  $1/a$  and  $1/b$  is calculated and the pixel value on the original image nearest to the inverse map point is used as the pixel value of (X, Y), i.e. similar to the following claim invention:

“determining an enlargement ratio corresponding to the determined number of pixels”. Ishizaka at paragraphs 0057-0058 discloses that (copied and pasted from the published document) the print engine 70 has a print output processing section 72 for performing predetermined printout processing for the enlarged image data D10 output from the image processing apparatus b, a laser light source 74 for emitting a light beam, a laser drive section 76 for controlling, namely, modulating the laser light source 74 in accordance with data output from the print output processing section 72, and a polygon mirror (rotating polygon mirror) 78 for reflecting the light beam emitted from the laser light source 74 toward a photosensitive member 79. The print output processing section 72 generates data representing a plurality of separation colors, preferably at least three separation colors in accordance with a known art for the enlarged image data D10 representing an enlarged image and renders the data (expands the data to raster data). For example, from a YCrCb color system represented by decompression color correction digital data D10, at least three (preferably, four) data pieces are mapped into a CMY color system or a

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CMYK color system, for example, and raster data subjected to color separation for printout is generated, see similarity of the following claim language: “enlarging the image at the determined enlargement ratio and printing the enlarged image”. The rejection of claims 6 and 12 is similar to the rejection of claim 1.

2. Re. claims 2, 3 and 7-8.

The step of claim 2 is inherent because Ishizaka at paragraph 0006 discloses displaying or printing of such digital images with high quality has been demanded with distribution of digital cameras. The digital camera has numerous image files. Re. claims 3 and 8, the digital camera can be considered as an outside source.

3. Re. claims 4, 9 and 13.

Ishizaka at paragraph 0006 discloses when the objective image is again formed from the set of the range block positions; coordinate conversion, and pixel value conversion, the operation of assigning the result of performing coordinate conversion and pixel value conversion to range block for any initial image to domain block is iterated.

4. Re. claims 5, 10 and 14. Ishizaka at paragraph 0115 discloses the iterated processing control section 672 determines whether or not the current local collage processing is at the last time (S230).

5. Re. claim 11. Ishizaka illustrates in table 1, under paragraph 0123.

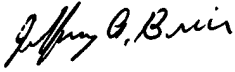
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***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Javid A. Amini whose telephone number is 571-272-7654. The examiner can normally be reached on 8-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on 571-272-7664. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
JEFFERY W. BRIER  
PRIMARY EXAMINER

Javid A Amini  
Examiner  
Art Unit 2672

Javid Amini